

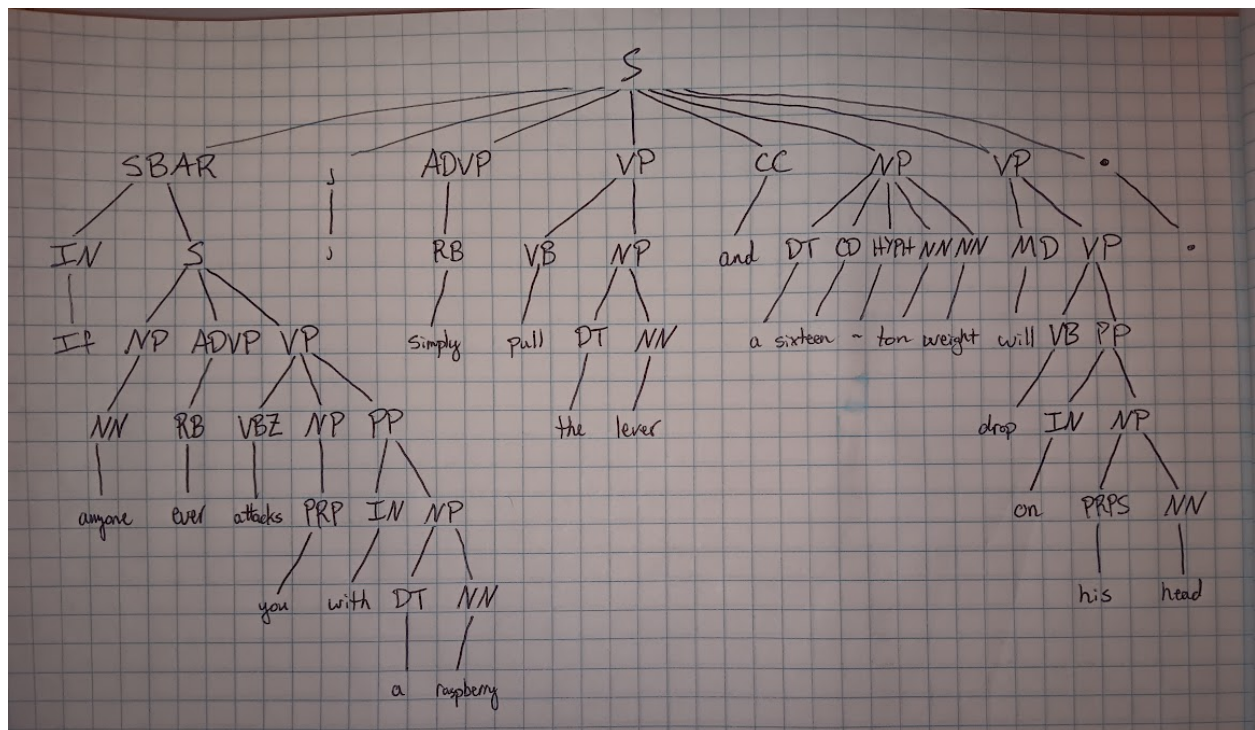
## Sentence Parsing: *Self-Defence* by Monty Python

Original sentence: *If anyone ever attacks you with a raspberry, simply pull the lever...and a sixteen-ton weight will drop on his head.*

Simplified version: *If anyone ever attacks you with a raspberry, simply pull the lever and a sixteen-ton weight will drop on his head.*

[Source](#)

### PSG Tree



### Definitions

**S:** Sentence

**SBAR:** Clause introduced by a subordinating conjunction

**ADVP:** Adverb Phrase

**VP:** Verb Phrase

**CC:** Coordinating conjunction

**NP:** Noun Phrase

**IN:** Preposition or subordinating conjunction

**RB:** Adverb

**VB:** Verb, base form

**DT:** Determiner

**CD:** Cardinal number

**HYPH:** Hyphen

**NN:** Noun, singular or mass

**MD:** Modal

**PP:** Prepositional phrase

**VBZ:** Verb, third person singular present

**PRP:** Personal pronoun

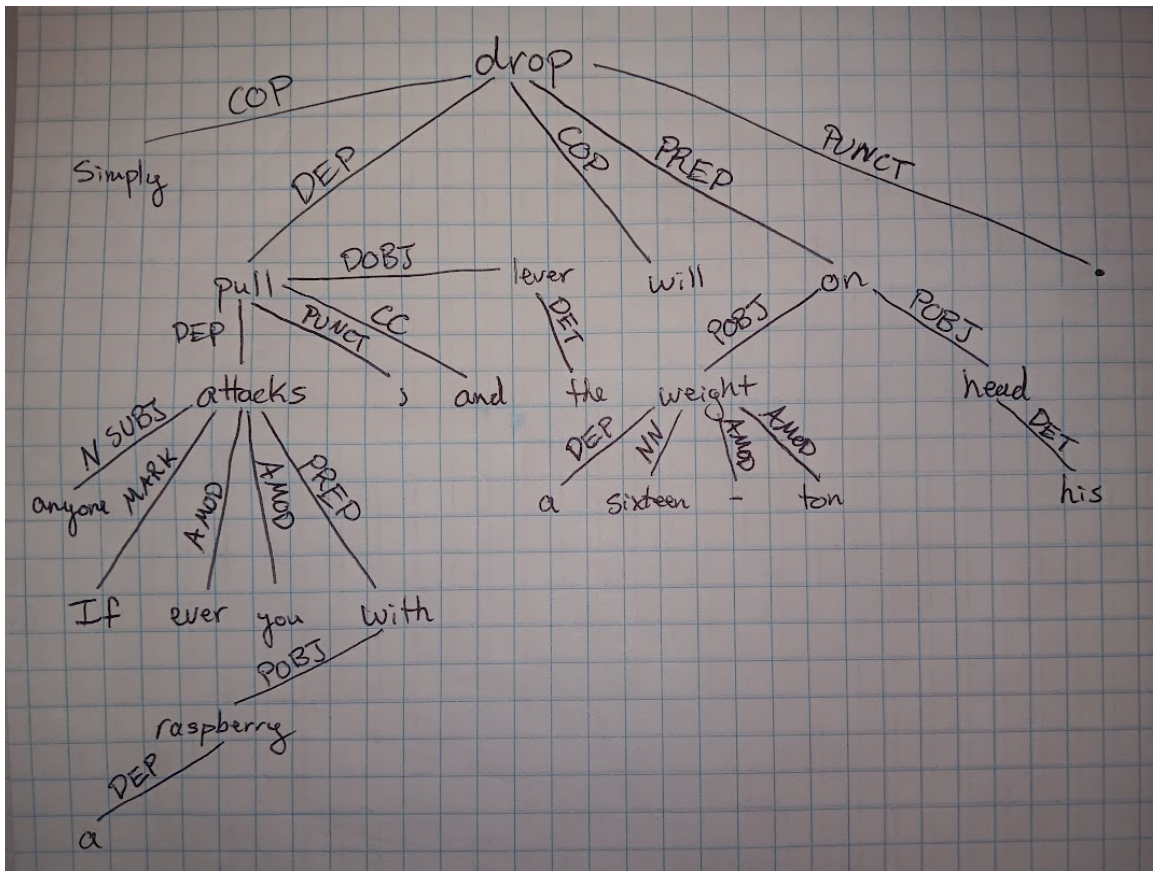
**PRPS:** Possessive pronoun

. : Period

, : Comma

[Source](#)

## Dependency Parse



## Definitions

**COP:** Copula - the relation between the complement of a copular verb and the copular verb

**DEP:** Unspecified dependency

**PREP:** Prepositional modifier - modifies the meaning of a verb, adjective, or noun

**PUNCT:** Punctuation

**DOBJ:** Direct Object - the recipient of the action of a verb

**DET:** Determiner - relation between the head of a noun phrase and its determiner

**POBJ:** Object of a preposition - head of a noun phrase following the preposition; the adverbs "here" and "there"

**CC:** Coordination - relation between an element of a conjunct and the coordinating conjunction word of the conjunct

**NSUBJ:** Nominal subject - a noun phrase which is the syntactic subject of a clause

**MARK:** Marker - the word introducing an adverbial clausal complement

**AMOD:** Adjectival modifier - modifies the meaning of a noun phrase

**NN:** Noun compound modifier - modifies the head noun of a noun phrase

[Source](#)

## SRL Parse

Predicate	Arguments	Modifiers
attacks	ARG0: anyone ARG1: you	TMP: ever MNR: with a raspberry
pull	ARG1: the lever	ADV: If anyone ever attacks you with a raspberry ADV: simply
will		
drop	ARG1: a sixteen-ton weight ARG4: on his head	MOD: will

## Definitions

### Arguments

**ARG0:** actor or agent of the sentence doing the action.

- In the sentence, 'anyone' is doing the attacking.

**ARG1:** passive actor.

- 'You' is the thing being attacked.
- 'The lever' is the thing being pulled.
- 'A sixteen-ton weight' is the thing being dropped.

**ARG4:** the end point, or end state of arg1.

- 'On his head' is the end state of 'a sixteen-ton weight.'

### Modifiers

**TMP:** when?

- 'Ever' is when you should pull the lever.

**MNR:** how?

- 'With a raspberry' is how you are being attacked.

**ADV:** miscellaneous

- 'If anyone ever attacks you with a raspberry' is when you should pull.
- 'Simply' is how you should pull.

**MOD:** modal [example: The vase very easily *could* have fallen]

- The sixteen ton weight *will* drop.

[Source](#)

[Source for modal](#)

## My Opinion

The PSG parse tree seemed to be the most natural way of parsing the sentence. The sequence of tokens is retained in the leaves of the PSG tree. However, it takes the knowledge of a linguist to understand the meaning of the branches of the PSG tree. The dependency parse was less intuitive and was more difficult to draw by hand. However, the relations described by the dependency parse give better understanding than the constituency parse as to how the parts of the sentence work together. The SRL parse produced some curious results, like the two ADV modifiers which probably should have been TMP and MNR modifiers. The SRL parse does a good job of describing the active and passive actors in the sentence.